

ST2 Update Greenhouse Gas Emission Reduction

Sound Transit Board of Directors
July 10, 2008

GHG Emission Savings

(metric tons CO₂ equivalents reduction in 2030)

	0.4% 12-year	0.5% 12-year	0.5% 20-year
Daily (low/high)	282	291	483
	367	402	763
Annual (low/high)	87,420	90,210	149,730
	113,770	124,620	236,530

- Low end of the range assumes 91% of the electricity consumed by LRT is generated from hydroelectric & nuclear sources (current WA State average).
- High end of the range assumes 100% is generated from hydroelectric & nuclear sources (Seattle Light's climate mitigation program goal).
- The current mix for Seattle Light is 98% to 99% hydroelectric & nuclear sources.

What does this mean per year?

	EPA Factor (metric tons CO ₂ E)	0.4% 12-year	0.5% 12-year	0.5% 20-year
ST2 Annual Avg Savings (metric tons CO ₂ E)		100,595	107,415	193,130
Passenger vehicles	5.46	18,400	19,700	35,400
Barrels of oil consumed	0.43	233,900	249,800	449,100
Gasoline tanker trucks	74.88	1,300	1,400	2,600
Homes (single-family)	11.33	8,900	9,500	17,000
Acres of forest preserved	143.37	700	700	1,300
Railcars of coal	191.5	500	600	1,000
Tons of landfill waste	2.9	34,700	37,000	66,600